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MIKIBY AK980

MIKIBY AK980 Mechanical Keyboard User Manual

Model: AK980



1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your MIKIBY AK980 Mechanical Keyboard. The AK980 features a 98% layout, tri-mode connectivity (Bluetooth 5.0, 2.4GHz wireless, and USB-C wired), a smart TFT display, a multi-function knob, hot-swappable switches, PBT keycaps, and customizable RGB backlighting. Please read this manual thoroughly to ensure optimal performance and longevity of your device.

2. PACKAGE CONTENTS

Before you begin, please verify that all items are present in the package:

- MIKIBY AK980 Mechanical Keyboard
- USB-C Cable
- Keycap & Switch Puller
- User Manual (this document)

3. PRODUCT OVERVIEW

The MIKIBY AK980 is designed for versatility and performance. Key features include:

- **TFT Smart Display & Knob:** Displays date, time, battery level, connection mode, and allows for custom GIF images. The knob controls volume and backlight settings.
- **Tri-Mode Connectivity:** Seamlessly switch between Bluetooth 5.0, 2.4GHz wireless (via USB dongle), and wired USB-C connections.
- **Hot-Swappable Switches:** Supports 3-pin and 5-pin mechanical switches, allowing for easy customization without soldering.
- **Long-lasting Battery:** Equipped with an 8000mAh battery for extended wireless use.
- **98% Keyboard Layout:** Compact design retaining essential keys including a numeric keypad and function row.
- **RGB Backlight & Web Driver:** Features 20 pre-programmed lighting effects and web-based customization for lighting, key functions, and macros.
- **Gasket Mounted Design:** Provides a soft, elastic typing feel and reduces noise.

AK980

Gaming Mechanical Keyboard




BT5.0/2.4G
/wired


Hot Swappable


Gasket Structure


8000mAh Battery


RGB Backlit


PBT Keycaps


98% Layout


Metal Knob


TFT Color Screen


Web Driver

Figure 3.1: Overview of AK980 features including tri-mode connectivity, hot-swappable design, gasket structure, 8000mAh battery, RGB backlight, PBT keycaps, 98% layout, metal knob, TFT color screen, and web driver.

4. SETUP AND CONNECTION

4.1 Initial Charging

Before first use, connect the keyboard to a USB power source (e.g., computer USB port or USB wall adapter) using the provided USB-C cable. The TFT display will indicate charging status. A full charge can take several hours.

4.2 Connectivity Modes

The AK980 supports three connection modes. Use the switch located on the back of the keyboard to select your desired mode:



Figure 4.1: Tri-mode connectivity options for the AK980 keyboard.

4.2.1 USB-C Wired Mode

1. Set the mode switch on the back of the keyboard to 'USB'.
2. Connect the USB-C cable to the keyboard and the other end to your computer's USB port.
3. The keyboard will be automatically recognized and ready for use.

4.2.2 2.4GHz Wireless Mode

1. Set the mode switch on the back of the keyboard to '2.4G'.
2. Locate the 2.4G USB receiver (dongle) stored in the keyboard's dedicated slot.
3. Plug the USB receiver into an available USB port on your computer.
4. The keyboard will automatically connect. The TFT display will show the 2.4G connection icon.

4.2.3 Bluetooth Mode

1. Set the mode switch on the back of the keyboard to 'BT'.
2. The keyboard will enter pairing mode. The TFT display will show the Bluetooth icon blinking.

3. On your device (computer, tablet, smartphone), open Bluetooth settings and search for new devices.
4. Select 'AK980' from the list of available devices to pair.
5. Once paired, the Bluetooth icon on the TFT display will become solid.

4.3 Operating System Switch (WIN/MAC)

Use the dedicated switch on the back of the keyboard to toggle between Windows (WIN) and macOS (MAC) layouts. This ensures proper key mapping for your operating system.

5. OPERATION

5.1 Smart TFT Display and Knob Functions

The AK980 features a smart TFT display and a multi-function knob for enhanced control.



Figure 5.1: Metal Knob Control Button functions.

- **Rotate Knob:** Adjusts system volume by default.
- **Press Knob (Short Press):** Mutes/unmutes audio in default mode. Enters/confirms menu selections when navigating the

display.

- **Press Knob (Long Press):** Toggles between volume control and backlight adjustment modes.

The TFT display provides real-time information and access to various settings:



Figure 5.2: TFT Smart Display menu options.

- **Home Screen:** Displays date, time, battery level, WIN/MAC layout, and current connection mode.
- **RGB Modes:** Select from various pre-programmed RGB lighting effects.
- **RGB Colors:** Adjust the color of the RGB backlight.
- **RGB Speed:** Control the speed of dynamic RGB effects.
- **Language Settings:** Change the display language.
- **GIF Image Display:** Customize the GIF displayed on the screen (requires web driver software).

5.2 RGB Backlight Control

The keyboard features vibrant RGB backlighting with 20 pre-programmed effects. Use the following key combinations to control the backlight:

- **Fn + \|**: Cycle through RGB lighting modes.
- **Fn + ↑**: Increase backlight brightness.
- **Fn + ↓**: Decrease backlight brightness.
- **Fn + ←**: Change lighting direction/effect.
- **Fn + →**: Change lighting direction/effect.
- **Fn + X**: Turn backlight ON/OFF.
- **Fn + C**: Change backlight color (for static modes).
- **Fn + <**: Decrease lighting speed.
- **Fn + >**: Increase lighting speed.

For advanced customization, including macro recording, custom shortcut keys, and GIF display settings, download the official web driver software from the MIKIBY website.

5.3 Hot-Swappable Switches

The AK980 supports 3-pin and 5-pin hot-swappable mechanical switches, allowing you to easily change switches without soldering. Use the included keycap and switch puller for this process.



Hot Swappable Keyboard

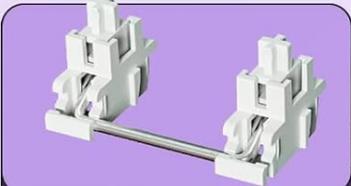
Support 3PIN/5PIN mechanical switches



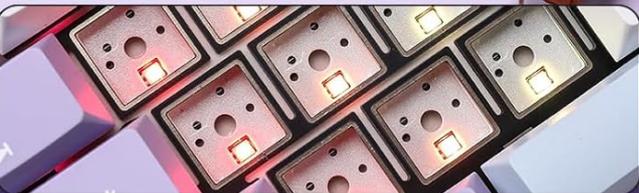
PBT Keycaps



Murad Switch



Mounted Stabilizer



South-Facing LED

Figure 5.3: Hot-swappable switch replacement process.

1. Gently remove the keycap using the keycap puller.
2. Use the switch puller to grasp the switch firmly and pull it straight up to remove it.
3. Align the pins of the new switch with the holes on the PCB. Ensure the pins are straight.
4. Press the new switch firmly into place until it clicks. Do not force it if there is resistance; check pin alignment.
5. Replace the keycap.

5.4 Battery Management

The AK980 is equipped with an 8000mAh battery. Battery life varies depending on usage, especially RGB lighting. The TFT display shows the current battery level.

8000mAh Battery Endurance
Unstoppable Play

8000mAh

28 Hour **RGB on**

110 Hour **Sleeping Mode**

Figure 5.4: Battery endurance details.

- **RGB On:** Up to 28 hours of continuous use.
- **Backlight Off (Sleeping Mode):** Up to 110 hours.
- To charge, connect the keyboard via the USB-C cable to a power source. You can continue to use the keyboard while it charges.

6. MAINTENANCE

6.1 Cleaning the Keyboard

- Disconnect the keyboard from all power sources before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the keycaps and chassis.
- For dust and debris between keycaps, use compressed air or a small brush.
- Avoid using harsh chemicals, abrasives, or solvents.

6.2 Keycap and Switch Care

- When removing keycaps, use the provided keycap puller to avoid damaging the keycaps or switches.
- When replacing switches, ensure the pins are perfectly aligned to prevent bending or damage.

7. TROUBLESHOOTING

If you encounter issues with your MIKIBY AK980 keyboard, please refer to the following common solutions:

Problem	Possible Solution
Keyboard not responding in wireless mode.	<ul style="list-style-type: none">◦ Ensure the mode switch is set correctly (2.4G or BT).◦ For 2.4G, ensure the USB receiver is securely plugged in.◦ For Bluetooth, ensure the keyboard is paired and your device's Bluetooth is enabled. Try re-pairing.◦ Check battery level on the TFT display. Charge if low.
TFT display is blank or not updating.	<ul style="list-style-type: none">◦ Ensure the keyboard is powered on and charged.◦ Try restarting the keyboard by turning it off and on.◦ If the issue persists, connect via USB-C and check for firmware updates using the web driver software.
RGB backlight not working or stuck.	<ul style="list-style-type: none">◦ Press Fn + X to ensure the backlight is not turned off.◦ Try cycling through modes with Fn + \ . ◦ Adjust brightness with Fn + ↑/↓.◦ Ensure battery is not critically low.
Date/Time on display is incorrect.	<ul style="list-style-type: none">◦ The date and time need to be set via the dedicated web driver software. Connect the keyboard via USB-C, open the software, and synchronize the time. Once set, the internal clock should maintain accuracy.
Keys are not registering or feel inconsistent.	<ul style="list-style-type: none">◦ Ensure the switch is fully seated in its socket. Gently press down on the keycap.◦ If a switch is faulty, use the switch puller to replace it with a new one.◦ Clean any debris around the switch.

8. SPECIFICATIONS

Feature	Detail
Model Number	AK980
Connectivity Technology	Bluetooth 5.0, 2.4GHz Wireless, USB-C Wired
Keyboard Description	Mechanical
Number of Keys	97
Backlighting	RGB
Battery Capacity	8000mAh (1 Nonstandard Battery included)
Compatible Devices	Gaming Console, Laptop, PC, Smartphone, Tablet
Special Features	Backlit, Ergonomic, Hot-Swappable, Volume Roller, Smart TFT Display
Item Weight	3.23 pounds
Package Dimensions	17.87 x 7.76 x 2.32 inches
Manufacturer	MIKIBY

9. WARRANTY AND SUPPORT

9.1 Warranty Information

The MIKIBY AK980 Mechanical Keyboard comes with a standard manufacturer's warranty. Please refer to the warranty card included in your product packaging or visit the official MIKIBY website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact MIKIBY customer support through their official website or the contact information provided with your product. Ensure you have your product model number (AK980) and purchase details ready when contacting support.

